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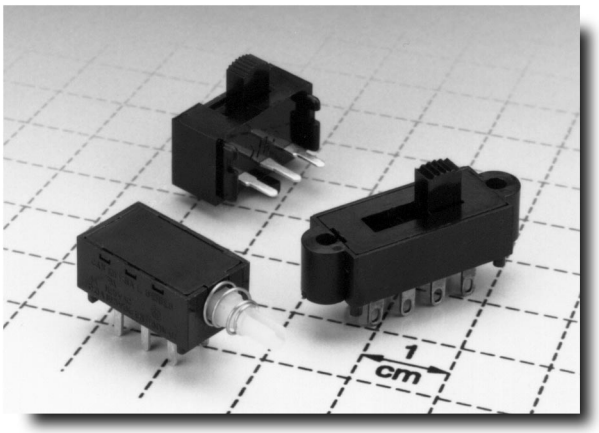
C&K L Series
Miniature Slide Switches



Features/Benefits

- Positive detent
- Enclosed housing
- Maintained and momentary functions
- PC and panel mounting

Models Available

Typical Applications

- Communications equipment
- Lighting devices

Build-A-Switch

Our easy Build-A-Switch concept allows you to mix and match options to create the switch you need. Below is a complete listing of options shown in catalog. To order, simply select desired option from each category and place in the appropriate box. Switches with standard options are shown on page E-21. Available options are shown and described on pages E-21 thru E-25. For additional options not shown in catalog, consult Customer Service Center.

Typical Example: L 2 0 2 — 0 1 — 1 — M S — 0 2 — Q — — —

Switch Function
- L202 **(STD.) DPDT**
- L203 **(STD.) DP3T**
- L101 SPST
- L102 SPDT
- L103 SP3T
- L104 SP4T
- L111 SPST, mom.
- L112 SPDT, mom.
- L113 SP3T, mom. to one end
- L123 SP3T, mom. to both ends
- L201 DPST
- L204 DP4T
- L211 DPST, mom.
- L212 DPDT, mom.

Actuator
- 01 **(STD.) .200" high**
- 02 .335" high
- 03 .375" high
- 05 .312" high
- 09 .250" high
- 11 .100" high
- 12 Screwdriver slot
- 13 Plunger without cap
- 14 Plunger with cap
- 15 Plunger with cap
- 16 Plunger with cap
- 17 Plunger with cap
- 18 Plunger with cap
- 19 Plunger with cap
- 23 Plunger with extension
- 24 Plunger with extension & cap
- 25 Plunger with extension & cap
- 26 Plunger with extension & cap
- 27 Plunger with extension & cap
- 28 Plunger with extension & cap
- 29 Plunger with extension & cap

Detent
- 1 **(STD.) With detent**
- 2 Without detent

Mounting Style
- MS **(STD.) PC Thru-hole**
- MA Right angle, PC thru-hole
- ML Right angle, PC thru-hole
- MV Right angle, PC thru-hole
- SS Panel with mounting ears
- TS Panel with integral mounting ears

Terminations
- 02 **(STD.) PC Thru-hole**
- 01 Solder lug
- 03 Solder lug
- 04 PC Thru-hole
- 06 Wire wrap
- 12 PC Thru-hole
- WC Wire lead

Contact Material
- Q **(STD.) Silver**
- B Gold
- G Gold over silver

Seal
- NONE **(STD.) No seal**
- E Epoxy seal

Cap Color
- 2 **(STD.) Black**
- NONE No cap
- 1 White
- 3 Red

Specifications

CONTACT RATING: Q contact material (LX0X, LX1X Models): 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA). (LX6X Models): 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA). See page E-25 for additional ratings.

ELECTRICAL LIFE: 10,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 10 milliohms typ. initial @ 2-4 V DC, 100 mA, for both silver and gold plated contacts.

INSULATION RESISTANCE: 10^9 ohms min.

DIELECTRIC STRENGTH: 1,000 V RMS min. @ sea level.

Materials

HOUSING: 6/6 nylon (UL94V-2), black.

ACTUATOR: 6/6 nylon (UL94V-2), black. '13' actuator, natural (standard).

CONTACTS: Q contact material: Copper, silver plated. See page E-25 for additional contact materials.

TERMINALS: Q contact material: Copper, silver plated. See page E-25 for additional contact materials.

CONTACT SPRING: Music wire or stainless steel.

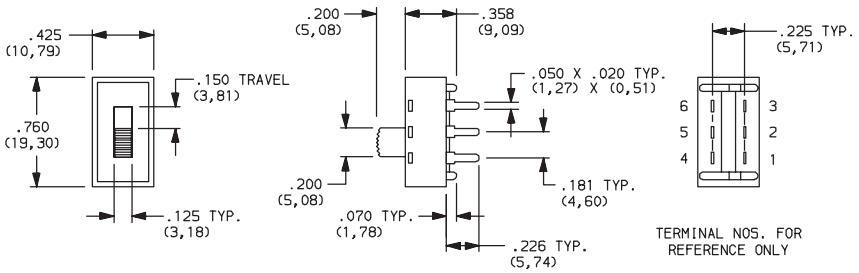
TERMINAL SEAL: Epoxy.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

SWITCH WITH STANDARD OPTIONS

PART NUMBER	FUNCTION
L202011MS02Q	DPDT

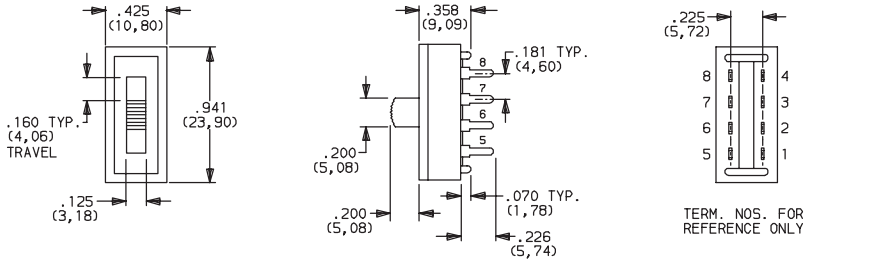
NOTE: For PC mounting information, see page E-25.



L202011MS02Q
DPDT

PART NUMBER	FUNCTION
L203011MS02Q	DP3T

NOTE: For PC mounting information, see page E-25.



L203011MS02Q
DP3T

SWITCH AND LOCK FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
SP	L101	SPST	1 2	ML, MS, SS
	L111	SPST–MOM.	1 2	ML, MS, MV, SS
	L102	SPDT	1 2 3	ML, MS, SS
	L112	SPDT–MOM.	1 2 3	ML, MS, MV, SS
	L103	SP3T	1 2 3 4	MA, MS, TS
	L113	SP3T–MOM. to one end	1 2 3 4	MA, MS,TS
	L123	SP3T–MOM. to both ends	1 2 3 4	MA, MS, TS
	L104	SP4T	1 2 3 4 5	MS

NO. POLES	MODEL NO.	SWITCH FUNCTION	SCHEMATIC	AVAILABLE MOUNTING STYLES
DP	L201	DPST	1 2 / 4 5	MA, MS, SS
	L202 (STD.)	DPDT	1 2 3 / 4 5 6	MA, MS, SS
	L211	DPST–MOM.	1 2 / 4 5	MV
	L212	DPDT–MOM.	1 2 3 / 4 5 6	MV
	L203 (STD.)	DP3T	1 2 3 4 / 5 6 7 8	MS
	L204	DP4T	1 2 3 4 5 / 6 7 8 9 10	MS

NOTE: ▭ and MOM. in table indicates momentary action.

All models ®UL ®CSA with all options when ordered with 'G' or 'Q' contact material.

Models with '01' termination option ®UL only.

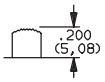
Contacts make on side actuator thrown.

E Slide

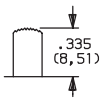
ACTUATOR

ACTUATOR OPTIONS FOR 'MS, MA, ML, SS, & TS' MOUNTING STYLES

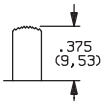
01 **(STD.) .200" HIGH**



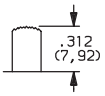
02 .335" HIGH



03 .375" HIGH



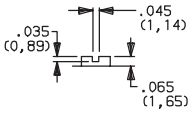
05 .312" HIGH



09 .250" HIGH

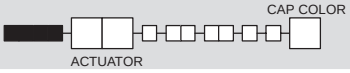
11 .100" HIGH

12 SCREWDRIVER SLOT



NOTE: No actuator color option code is required. Standard actuator color is black, other colors and heights available, consult Customer Service Center. See pages E-23 and E-24 for available mounting styles.

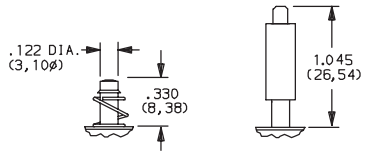
ACTUATOR



ACTUATOR OPTIONS FOR 'MV' MOUNTING STYLE

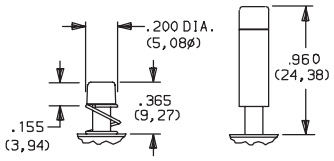
13 **(STD.) PLUNGER WITHOUT CAP**

23 PLUNGER WITH EXTENSION



14 PLUNGER WITH CAP

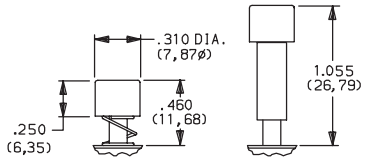
24 PLUNGER WITH EXTENSION & CAP



Cap part number 7089

15 PLUNGER WITH CAP

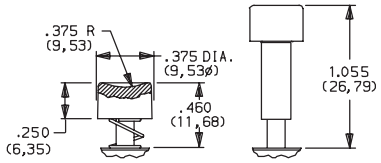
25 PLUNGER WITH EXTENSION & CAP



Cap part number 8018

16 PLUNGER WITH CAP

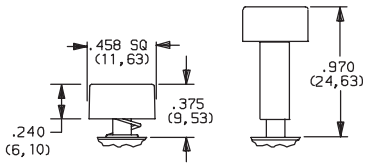
26 PLUNGER WITH EXTENSION & CAP



Cap part number 7527

17 PLUNGER WITH CAP

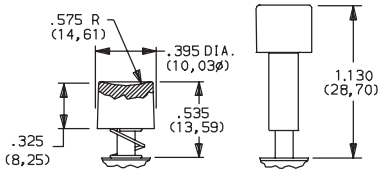
27 PLUNGER WITH EXTENSION & CAP



Cap part number 7982

18 PLUNGER WITH CAP

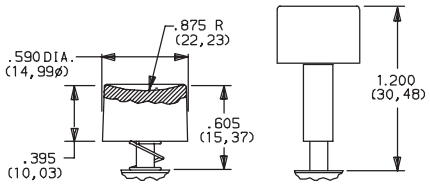
28 PLUNGER WITH EXTENSION & CAP



Cap part number 8941

19 PLUNGER WITH CAP

29 PLUNGER WITH EXTENSION & CAP



Cap part number 8940

OPTION CODE	ACTUATOR CAP COLORS
2	**(STD.) BLACK**
NONE	01-13, 23 ACTUATORS
1	WHITE
3	RED

Other colors available,
consult Customer Service Center.

ACTUATOR CAPS

Caps supplied are not installed standard. To order actuator options '14 thru 29,' select desired cap color from chart and place option code in last box of ordering format. Leave box empty for all other actuator options.

Caps may also be ordered separately and user installed, see pages L-8 thru L-10. Specify the four digit part number and desired cap color.

For switches without caps, order '13' or '23' actuator option. Cap finish: gloss (excluding square cap part number 7982, finish: matte).

SPLASH CAPS

New protective splash caps for PC mounted slide switches are available separately and reusable. They provide splash protection during soldering and cleaning processes. To order specify correct part number, see page L-25.

DETENT

1 **(STD.) WITH DETENT**

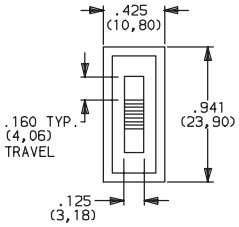
Standard with all maintained models: L101, L102, L103, L104, L113, L201, L202, L203, L204, L161, L162, L261 and L262.

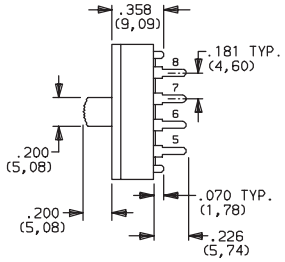
2 **(STD.) WITHOUT DETENT**

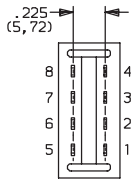
Standard with all momentary models: L111, L112, L123, L211, and L212.

MOUNTING STYLE

MS (STD.) PC THRU-HOLE







AVAILABLE WITH:

Models: L101, L111, L102, L112, L103, L123, L201, L202, L203, L104 and L204
Terminations: 02, 06 and 12
Actuators: 01, 02, 03, 05, 09, 11 and 12

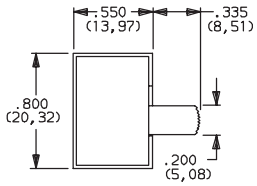
PC MOUNTING

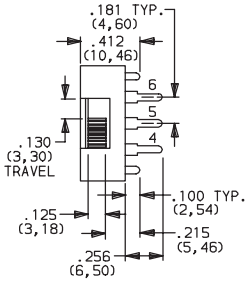
For mounting information, see TERMINATIONS section, page E-24.

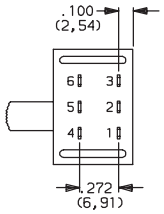
Splash caps are available separately and reusable, see page L-25.

L203011MS02Q
DP3T

MA RIGHT ANGLE, PC THRU-HOLE







AVAILABLE WITH:

Models: L201 and L202
Terminations: 04
Actuators: 02 and 12

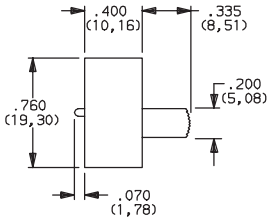
PC MOUNTING

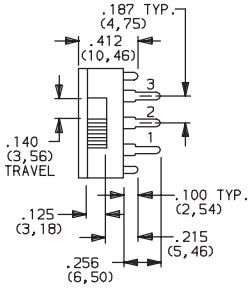
For mounting information, see TERMINATIONS section, page E-24.

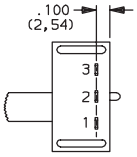
Splash caps are available separately and reusable, see page L-25.

L202021MA04Q
Horizontal Actuation
DPDT

ML RIGHT ANGLE, PC THRU-HOLE







AVAILABLE WITH:

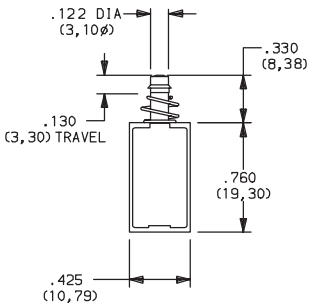
Models: L101, L111, L102 and L112
Terminations: 04
Actuators: 01, 02, 05, 11 and 12

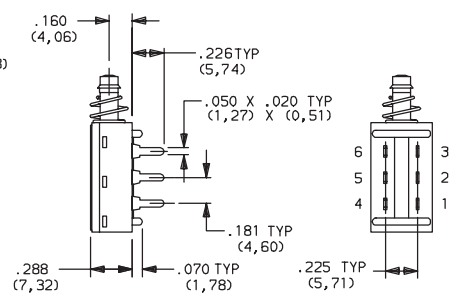
PC MOUNTING

For mounting information, see TERMINATIONS section, page E-24.

L102021ML04Q
Horizontal Actuation
SPDT

MV RIGHT ANGLE, PC THRU-HOLE





AVAILABLE WITH:

Models: L111, L112, L211 and L212
Terminations: 02, 06 and 12
Actuators: 13 thru 29

PC MOUNTING

For mounting information, see TERMINATIONS section, page E-24.

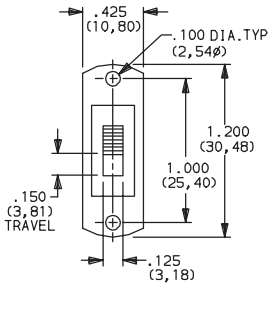
Splash caps are available separately and reusable, see page L-25.

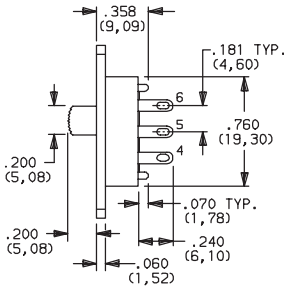
L212132MV02Q
DPDT

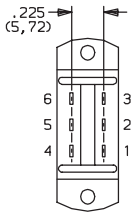
MOUNTING STYLE

SS PANEL WITH MOUNTING EARS

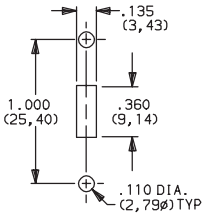
L202011SS03Q
DPDT







PANEL MOUNTING

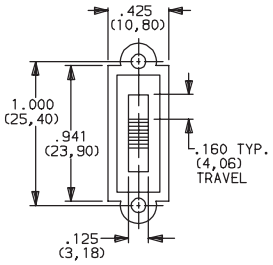


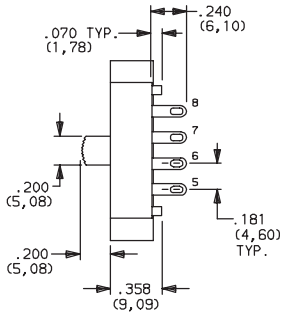
AVAILABLE WITH:

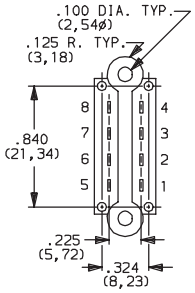
Models: L101, L111, L102, L112, L201 and L202
Terminations: 01, 02, 03, 06, 10, 12 and WC
Actuators: 01, 02, 03, 05, 09, 11 and 12

TS PANEL WITH INTEGRAL MOUNTING EARS

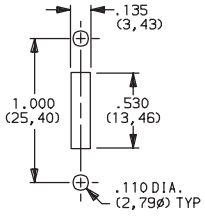
L203011TS03Q
DP3T







PANEL MOUNTING



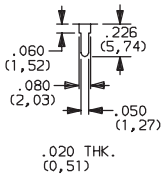
AVAILABLE WITH:

Models: L103, L113, L123 and L203
Terminations: 01, 02, 03, 06, 10, 12 and WC
Actuators: 01, 02, 03, 05, 09, 11 and 12

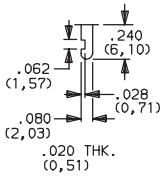
TERMINATIONS

'MS, MV, SS & TS' Mounting Styles Only

02 (STD.) PC THRU-HOLE

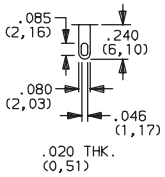


01 SOLDER LUG WITH NOTCH

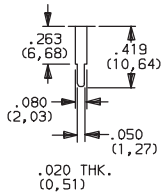


'01' terminations ® only.

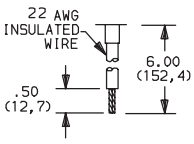
03 SOLDER LOG WITH HOLE



12 PC THRU-HOLE

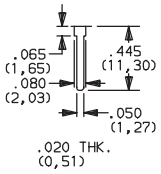


WC WIRE LEAD



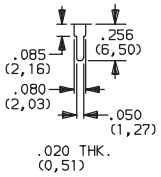
Black wire standard, other colors and lengths available, consult Customer Service Center.
UL style 1015.

06 WIRE WRAP



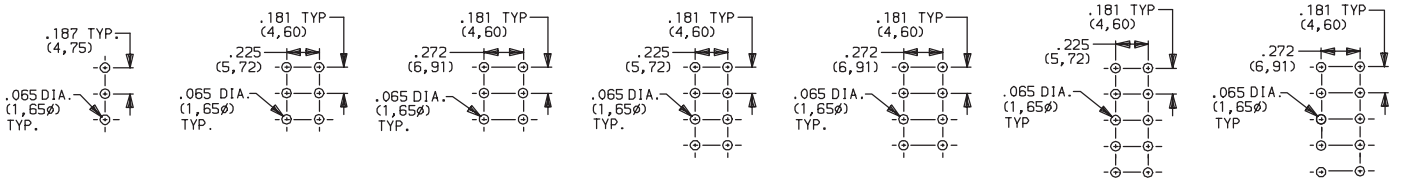
'MA & ML' Mounting Styles Only

04 PC THRU-HOLE



TERMINATIONS

PC MOUNTING



All models with '04' terminations and 'ML' mounting style.

All 2 position models, except '04' and '10' terminations.

All 2 position models with '04' and '10' terminations.

All 3 position models, except '04' and '10' terminations.

All 3 position models with '10' termination.

All 4 position models, except '04' and '10' terminations.

All 4 position models with '10' termination.

CONTACT MATERIAL

OPTION CODE	CONTACT AND TERMINAL MATERIAL	RATINGS	
Q (STD.)	SILVER [2]	POWER	LX0X, LX1X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA). LX6X MODELS: 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).
B	GOLD [1]	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @20 V AC OR DC max.
G	GOLD OVER SILVER [3]	LOW LEVEL/DRY CIRCUIT OR POWER	LX0X, LX1X MODELS: 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC; 0.5 AMP @ 125 V DC (UL/CSA). LX6X MODELS: 0.4 VA MAX. @ 20 V AC or DC MAX. or 4 AMPS @ 125 V AC or 28 V DC; 2 AMPS @ 250 V AC (UL/CSA).

CONTACT MATERIAL/APPLICATION RECOMMENDATIONS — SEE CHART, PAGE L-31.

[1] CONTACTS & TERMINALS: Copper, with gold plate over nickel plate.
[2] CONTACTS & TERMINALS: Copper, silver plated (standard with all termination options).
[3] CONTACTS & TERMINALS: Copper, with gold plate over nickel plate over silver plate.

All models with all options (except '01' termination) when ordered with 'G' or 'Q' contact material.

Models with '01' termination option only.

NOTE: 'G' contact material is equivalent to both 'B' and 'Q' contact materials.

SEAL

NONE **(STD.) NO SEAL**

E EPOXY SEAL